

ABSTRACT OF THE DISCLOSURE

A combustion apparatus for NO_x reduction and CO reduction capable of achieving stable NO_x reduction with simple means. The combustion apparatus for fulfilling NO_x reduction by controlling the temperature of combustion gas derived from a burner 1 includes NO_x reduction means having an excess air ratio versus NO_x characteristic that generated NO_x value decreases with increasing excess air ratio of the burner 1, and an excess air ratio versus CO characteristic that exhaust CO value increases with increasing excess air ratio, and excess-air-ratio control means for controlling the excess air ratio of the burner 1 to a specified excess air ratio, wherein the excess-air-ratio control means includes outside-air temperature detection means 2 and controls the excess air ratio to the specified excess air ratio based on a detection signal derived from the outside-air temperature detection means 42.